

## **ABSTRACT**

### **METHODS FOR THE REPLACEMENT, TRANSLOCATION AND STACKING OF DNA IN EUKARYOTIC GENOMES**

The present invention includes compositions and methods for site-specific polynucleotide replacement in eukaryotic cells. These methods include single polynucleotide replacement as well as gene stacking methods. Preferred eukaryotic cells for use in the present invention are plant cells and mammalian cells.

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